

Claims

[c1]

WHAT IS CLAIMED IS:

1. A wing arrangement comprising:

a window or door frame (5);

a wing of a door or a window secured in the window or door frame (5) so as to allow opening and closing of the wing at an opening side (3) of the wing (1);

a locking device provided at the opening side (3) of the wing and comprising at least one push rod (9) for locking the wing in the window or door frame (5);

wherein the locking device further comprises at least one locking bar (4) and an actuating element (18) acting on the locking bar (4);

wherein the wing has a wing frame (1) and wherein the at least one locking bar (4) and the actuating element (18) are supported on the wing frame (1);

wherein the at least one locking bar (4) is configured to engage the window or door frame (5) or a neighboring wing frame of a neighboring wing for locking the wing;

wherein the wing frame (1) has an open profile section (11) open to the opening side (3);

wherein the at least one locking bar (4) is inserted into the open profile section (11) of the wing frame (1) at any desired location;

wherein the actuating element (18) is a driver mounted on the at least one push rod (9) in a matching position relative to the at least one locking bar (4) for actuating the at least one locking bar (4).

[c2] 2. The wing arrangement according to claim 1, wherein the at least one push rod (4) is arranged on the wing so as to be accessible from the opening side (3) of the wing.

[c3] 3. The wing arrangement according to claim 1, wherein the locking device comprises a locking element and wherein the at least one push rod (9) acts on the locking element to move the locking element in a pushing direction (90) of the push rod (9) out of the wing frame (1) for locking the wing frame (1) in the window or door frame (5).

[c4] 4. The wing arrangement according to claim 1, wherein the at least one locking bar (4) comprises a rotary bearing (17) and a pivot element mounted rotatably on the rotary bearing (17).

[c5] 5. The wing arrangement according to claim 1, wherein the driver (18) comprises a locking driver member (28) and wherein the at least one locking bar (4) has an engagement element (19) interacting with the locking driver member (28) for effecting locking of the wing.

[c6] 6. The wing arrangement according to claim 5, wherein the locking driver member (28) is in an unlocked position of the wing

is spaced from the engagement element (19) of the at least one locking bar (4) in a longitudinal direction of the at least one push rod (9) by a spacing matching an ineffective travel stroke (F) of the locking driver member (28).

- [c7] 7. The wing arrangement according to claim 6, wherein the driver (18) comprises an unlocking driver member (38) interacting with the engagement element (19) of the at least one locking bar (4).
- [c8] 8. The wing arrangement according to claim 7, wherein the locking driver member (28) and the unlocking driver member (38) are spaced apart from one another at least by a spacing matching the ineffective travel stroke (F) of the locking driver member (28).
- [c9] 9. The wing arrangement according to claim 7, wherein the locking driver member (28) and the unlocking driver member (38) are connected to one another and form a monolithic part.
- [c10] 10. The wing arrangement according to claim 5, wherein the engagement element (19) of the at least one locking bar (4) is an engagement bolt eccentrically arranged relative to the rotary bearing (17) of the at least one locking bar (4).
- [c11] 11. The wing arrangement according to claim 1, wherein the driver (18) is inserted into the at least one push rod (9).

- [c12] 12. The wing arrangement according to claim 1, wherein the locking device further comprises a locking part (13) inserted into the window or door frame (5) or the neighboring wing frame of the neighboring wing, wherein the at least one locking bar (4) lockingly engages the locking part (13).
- [c13] 13. The wing arrangement according to claim 12, wherein the window or door frame (5) or the neighboring wing frame of the neighboring wing has an at least partially continuously extending profile groove (14) for receiving the locking part (13).
- [c14] 14. The wing arrangement according to claim 12, wherein the wing to be opened has at the opening side (3) at least one substantially continuous profile section groove (11) having a groove bottom (11'), wherein the at least one locking bar (4) is positioned in the profile section groove (11) and the at least one push rod (9) is located at the groove bottom (11').
- [c15] 15. The wing arrangement according to claim 12, wherein at least one of the at least one locking bar (4) and the locking part (13) has a contour beneficial for an engagement action between the at least one locking bar (4) and the locking part (13).
- [c16] 16. The wing arrangement according to claim 1, wherein the locking device comprises a lock case (12) and wherein the at

least one locking bar (4) is secured in the lock case (12).

[c17] 17. The wing arrangement according to claim 1, further comprising covers inserted into the open profile section (11) of the wing frame (1) outside of an area where the at least one locking bar (4) is arranged.